## Custom portfolio deployment with the Jekyll framework

#### Overview:

This documentation will enable you to deploy a custom portfolio website. These same techniques may be used for a variety of additional website types as well. This tutorial will use include how to: purchase a domain name, configure domain name, select a Jekyll framework theme for website design, and final deployment for the world wide web using <u>Github Pages</u> for free hosting.

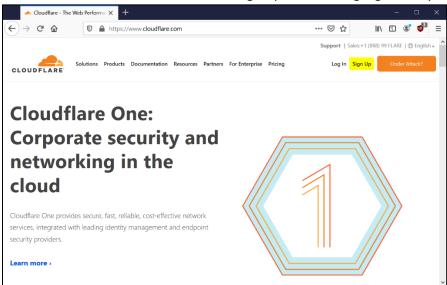
#### Limitations:

- 1. This documentation does not include any information regarding Jekyll template creation.
- 2. The domain registrar in this documentation will be <u>CloudFlare</u>. CloudFlare, as of writing this documentation, operates an at-cost operation for domain registration and thus offers the lowest rates overall for both initial registration and renewal. However, some other services may be able to offer discounts for initial domain purchasing and you may be able to transfer to CloudFlare for the at-cost renewal rates.
- 3. Github Pages may no longer provide free hosting in the future. As of creation this documentation, there are no plans for retirement nor are there any public comments from Github suggesting it may do so. Please ensure Github Pages is available by checking pages.github.com before following this tutorial. If Github Pages is no longer available, please contact node38.tutorial@dmoruzzi.com and an additional deployment

### Purchasing a domain:

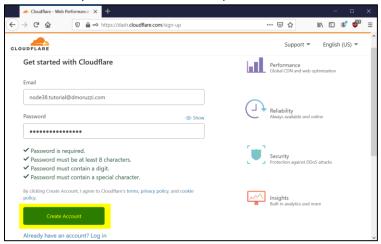
For this tutorial, we will be using CloudFlare to purchase and configuration our customized.

1. Please visit CloudFlare.com and select "Sign Up" which is highlighted in yellow.

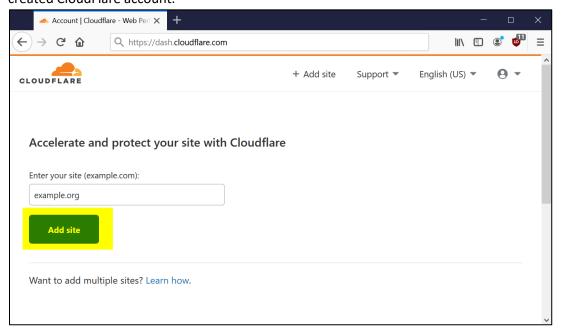


a. If you already have a CloudFlare account, please select sign into your account and skip to Step 8.

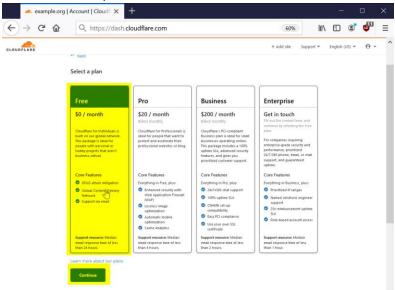
2. Please enter your email address and password for CloudFlare.



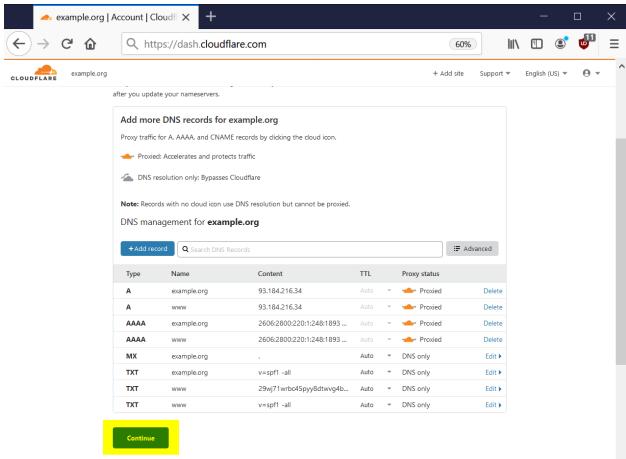
3. When your account is created, you will be automatically redirected to add your domain. However, you do not currently own a domain yet. As a result, we will temporarily enter the domain "example.org" to finish the sign-up process. This will be removed later. Once example.org is entered, please select "Add site". Please check your email and verify your newly created CloudFlare account.



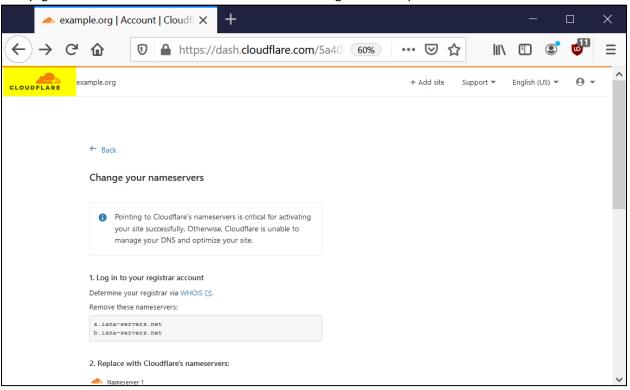
4. Please enter the plan "Free" and then enter "Continue"



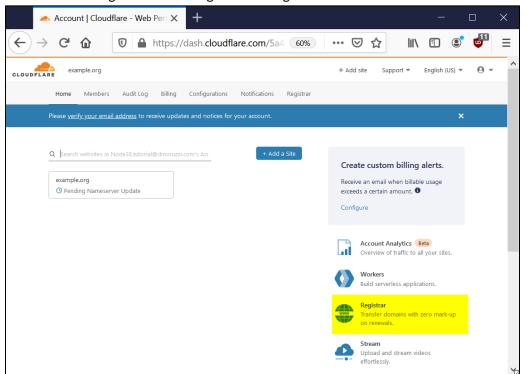
5. CloudFlare will find a number of domain records and addresses. You may ignore these as they will be deleted in a moment. Please select "Continue"



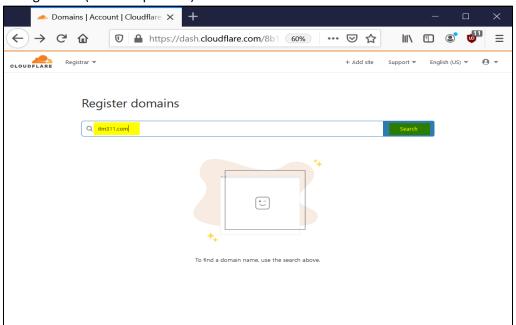
6. CloudFlare will request for you to change your name server records for this domain. You may safely ignore this. Please select click on the Cloudflare logo on the top left corner.



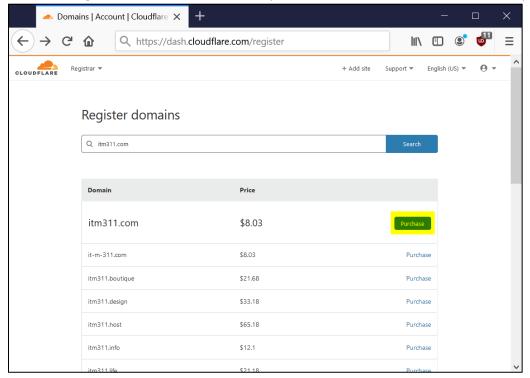
7. Please select "Registrar" on the right-side navigation bar.



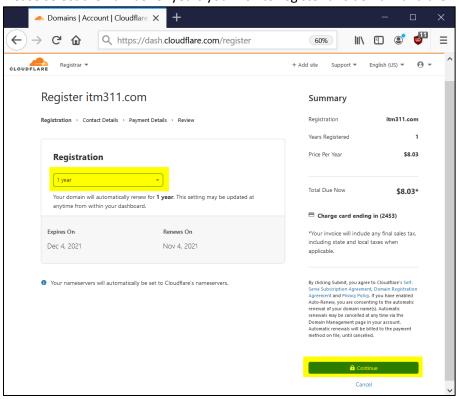
8. You will then be requested for the new domain you wish to register. This domain cannot already be registered (i.e. example.com).



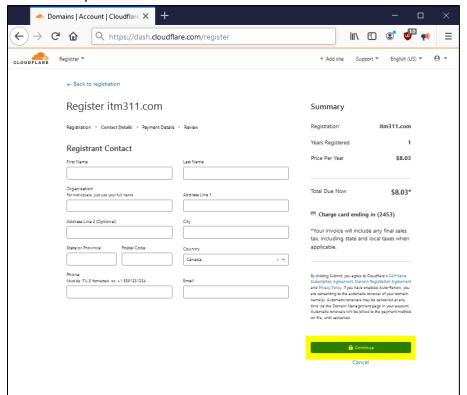
9. A list of all registerable domains will return, please select "Purchase" with the domain you wish.



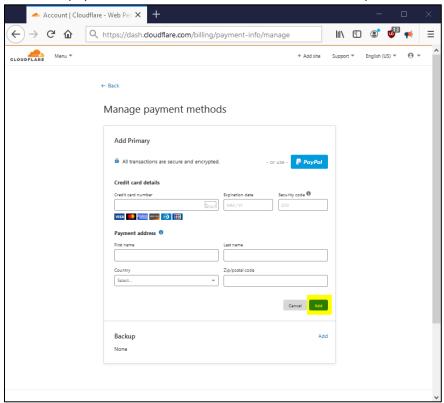
10. Please select the number of years you wish to register this domain and then click "Continue".



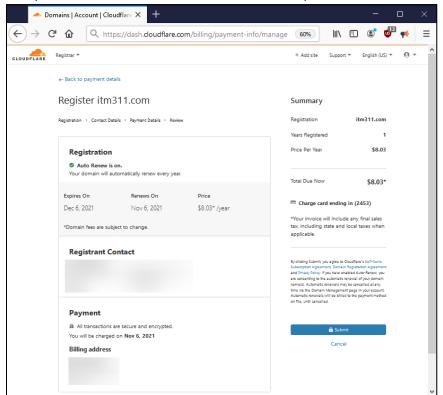
11. Please enter your contact information and then select "Continue"



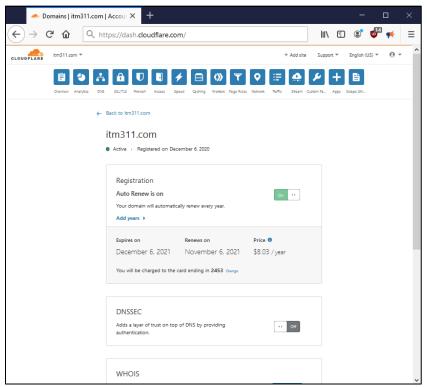
12. Add credit payment information and select "Add" when completed.



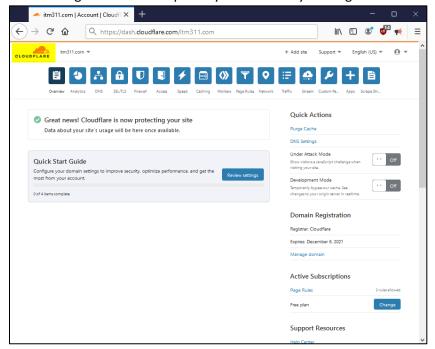
13. Verify contact information and select "Submit" to purchase domain.



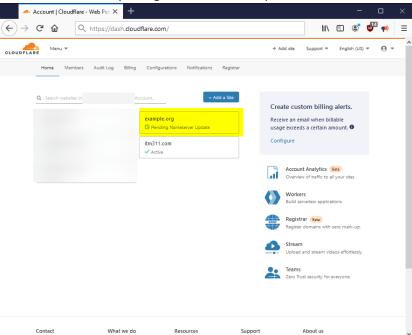
14. You will immediately be redirected to CloudFlare's dashboard from within your newly purchased domain.



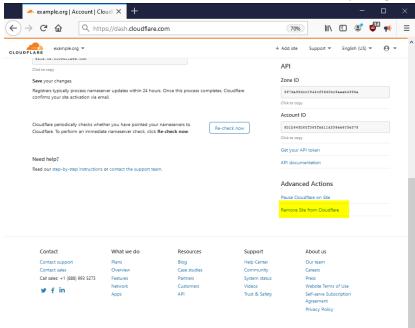
15. Please navigate back to the primary dashboard by clicking on the CloudFlare logo on the top left.



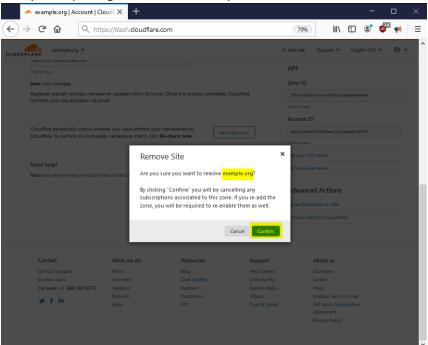
16. Please select "example.org" inside the main preview dashboard.



17. Scroll down to the bottom and select "Remove Site [example.org] from Cloudflare"



18. Verify example.org is the domain and provide confirmation if so.

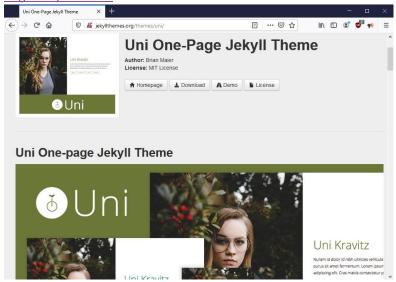


You have successfully purchased your domain.

Locate desired Jekyll template:

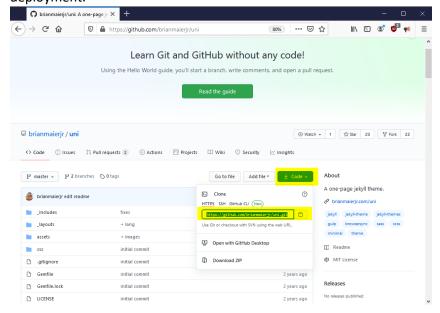
1. Visit jekyllthemes.org

2. Scan through each page onto you find the desired template. In this instance, I found "<u>Uni One-Page Jekyll Theme</u>".



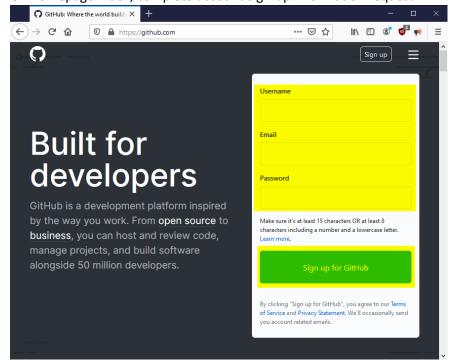
- 3. Verify licensing restrictions; visit <a href="https://choosealicense.com/licenses/">https://choosealicense.com/licenses/</a> to confirm the specified license fits for desired use case. In this instance, the MIT license works well.
- 4. If license is acceptable, select "homepage" from JekyllThemes to visit the source code.

5. Select "Code" and then copy provided hyperlink from "HTTPS". Save this link for web hosting deployment.

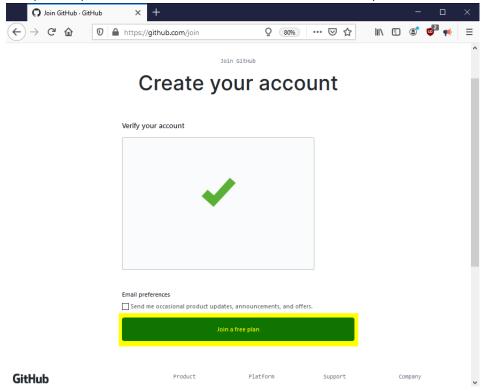


# Managing website hosting:

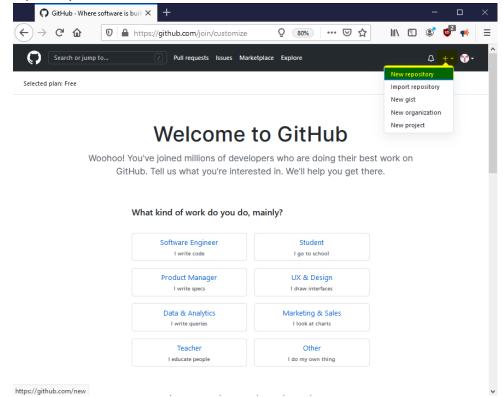
- 1. Visit github.com from any modern web browser.
- 2. On homepage index, complete account sign-up information request.



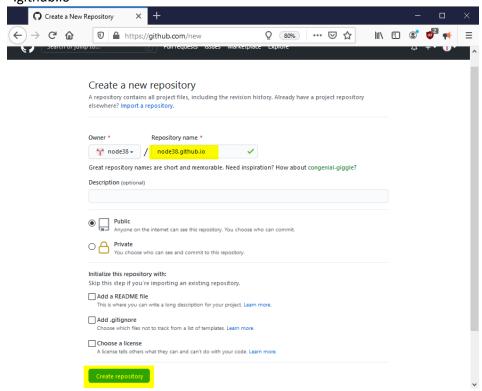
3. Complete caption for verification and then select "Join a free plan". Please then verify email.



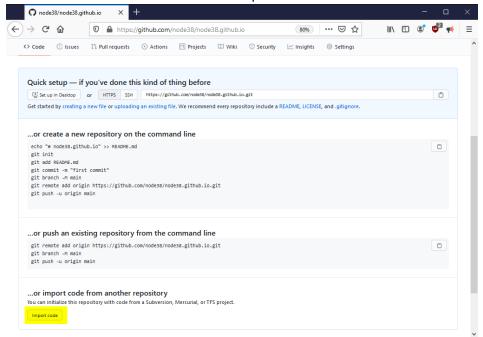
4. Select the plus icon in the top right corner near your avatar image and then select "New repository"



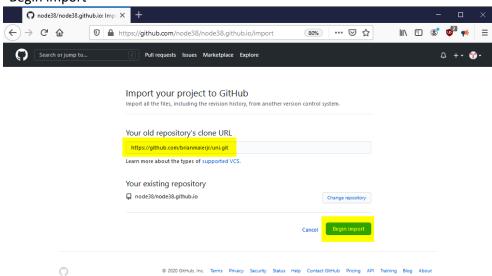
5. On this page, please enter your repository name as your Github username followed by ".github.io"



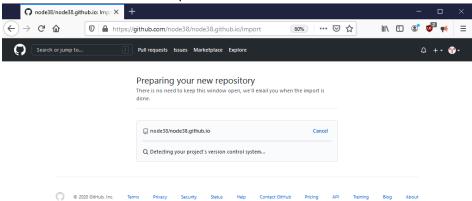
6. Scroll down to the bottom and select "Import code".



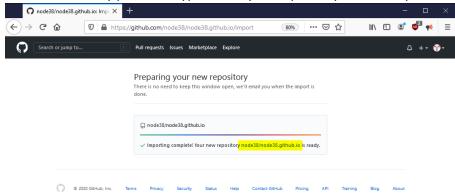
7. From earlier a template's code hyperlink was saved. Enter this hyperlink now and then select "Begin Import"



8. Wait until initialization is complete



9. Click on the newly provided hyperlink of your repository when completed.

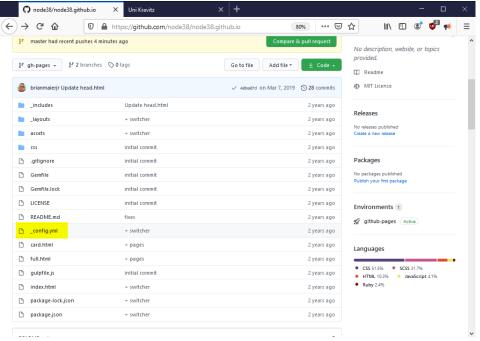


- 10. Verify no file named "CNAME" exists; if it does, see step 13 and jump back to step visit 12.
- 11. In a new tab, visit the following website: [github\_username].github.io and make sure all appears well.

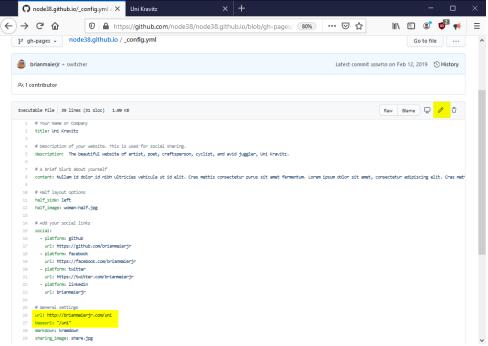


12. If the website appears white and without styling and images, it means there is likely an issue with the baseurl inside the \_config.yml document. Please visit your previous Github.com link in

the previous tab and click onto "\_config.yml"

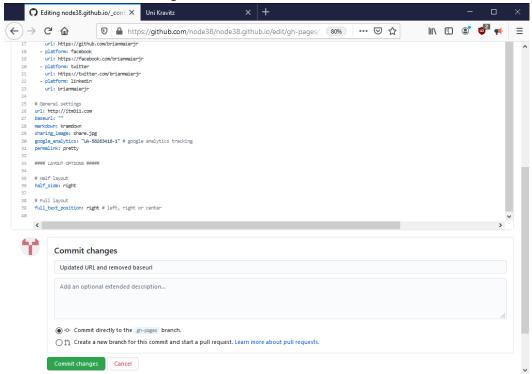


13. Check if there is a baseurl configured, please select the "Edit" pencil icon near the top right. Additionally, if there is a "URL" or "HOSTNAME", change this to your new domain.

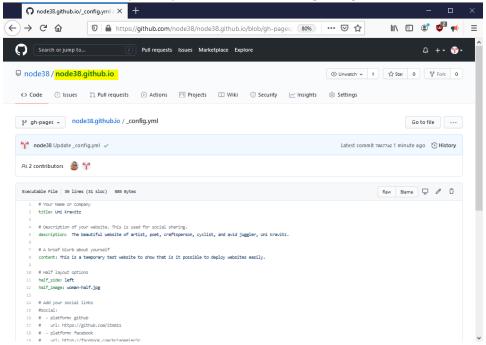


14. Execute the required changes and then provide a meaningful title to these modifications. While inside this documentation file, if there is anything you wish to change such as the Twitter URLs

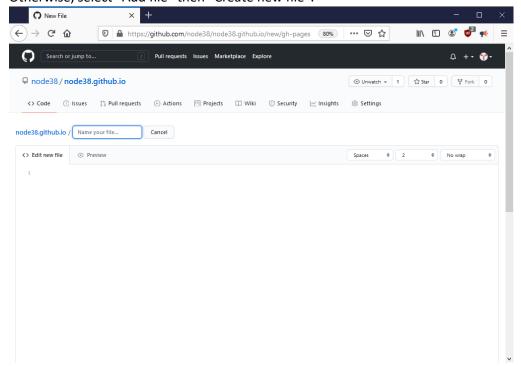
or email addresses, this is a good time to do so.



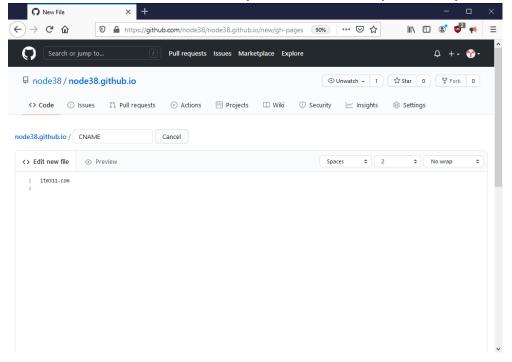
15. Please click on the repository name after committing changes.



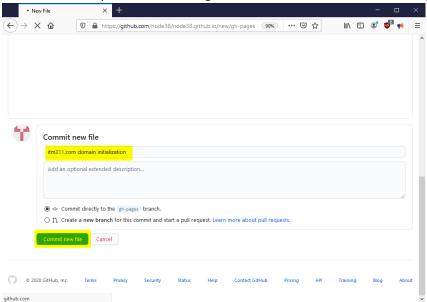
16. Inside the root folder of your website, if there is a CNAME document, click onto it and edit. Otherwise, select "Add file" then "Create new file".



17. Name the file "CNAME" and then enter your domain name only followed by an additional line.



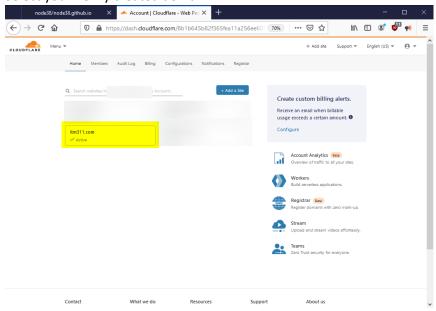
18. Scroll down and provide a meaningful comment and then commit changes.



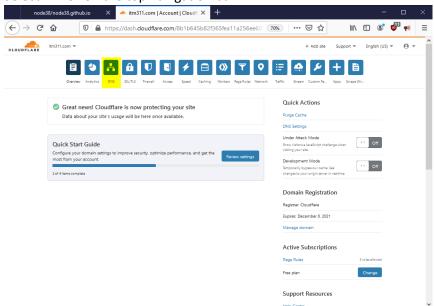
19. Please follow the documentation provided in "README.md" for information regarding how to modify these templates; it will vary from template to template.

Configuring domain to Github hosting with Jekyll theme.

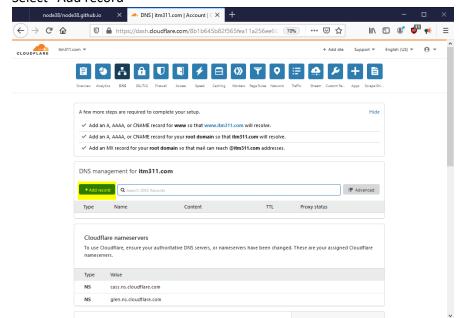
- 1. Visit cloudflare.com and sign into previously created account.
- 2. Select your newly created domain.



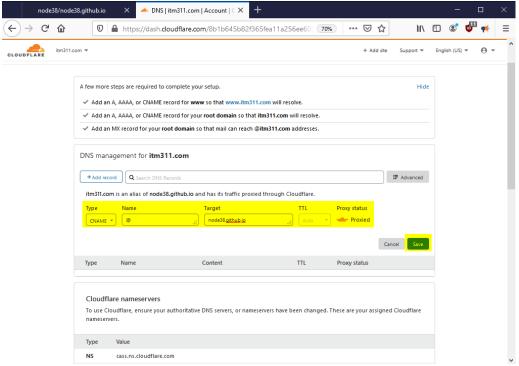
3. Select "DNS" on the top navigation bar



4. Select "Add record"



5. Add type: Type "CNAME" for name "@" and target "[github\_username].github.io" then save.



6. You have successfully deployed a domain to Github's hosting platform. This may take several hours to two days until the domain is successfully applied for all users. However, this normally takes about 5 minutes.